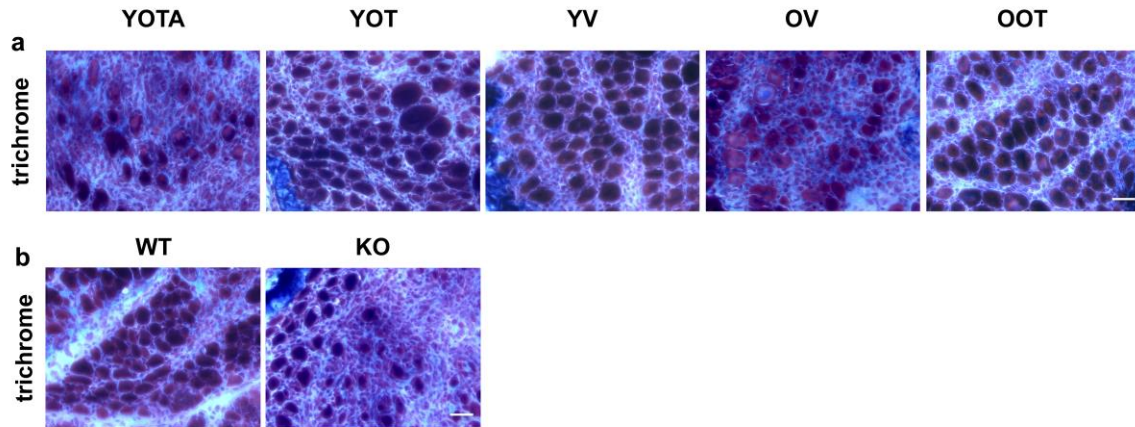


SUPPLEMENTARY INFORMATION

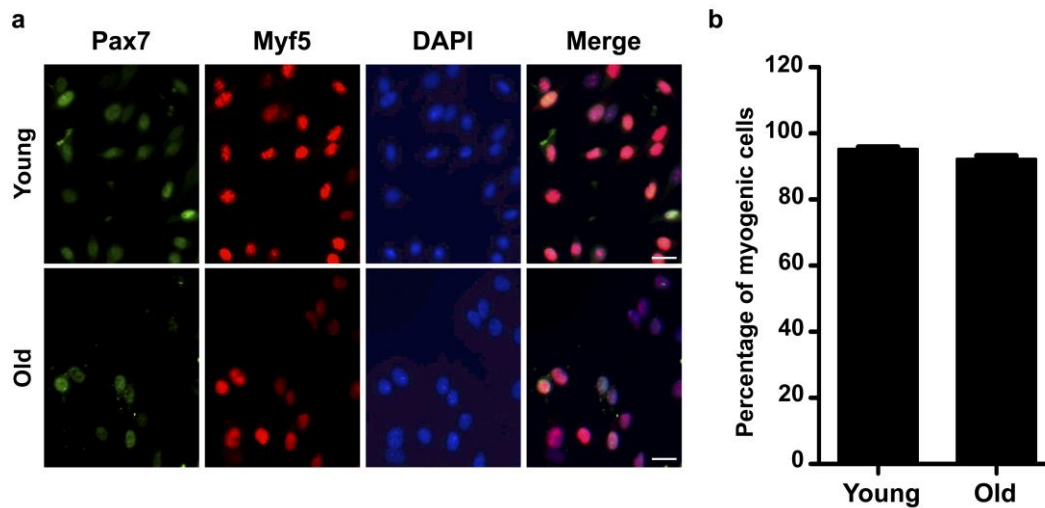
Supplementary Figure 1



Supplementary Figure 1: Trichrome staining.

Representative Gomori trichrome staining of 5-day-cardiotoxin-injured gastrocnemius muscle cross sections from mice injected with OT, OTA, or vehicle (HBSS) (**a**) or WT and *Ot* KO (**b**). Muscle fibers are shown in red and connective tissue is stained in green. The observed regenerative outcomes were the same when tissue was analyzed by H&E staining or eMyHC detection. Thus eMyHC was used for quantification of fibrotic areas versus newly formed muscle fibers as previously described⁵. Figure linked to Figures 2d and 6d. Scale bars represent 50 μ m.

Supplementary Figure 2



Supplementary Figure 2: Satellite cell purity.

a and b, Activated satellite cells were isolated 3 days after injury from young or old mice, cultured for 24 hours in media containing their mouse's respective sera, fixed and stained for Pax7 (green) and Myf5 (red), and counterstained for DAPI. **a**, Representative micrographs. **b**, Quantification of the percentage of myogenic cells i.e. cells positive for Pax7 and/or Myf5. Data represent mean \pm SEM (n=4 mice per group). Figure linked to Figures 1c, 1e, 5a-c. Scale bars represent 20 μ m